

growth in atmospheric concentrations of methane from sources within the United States referred to in paragraphs (1) through (6) of subsection (b). This study shall identify and evaluate the technical options for reducing methane emissions from each of the activities listed in subsection (b), as well as other activities or sources deemed by such agencies to be significant, and shall include an evaluation of costs, technology, safety, energy, and other factors. The study shall be based on the other studies under this section. The study shall also identify programs of the United States and international lending agencies that could be used to induce lesser developed countries to undertake measures that will reduce methane emissions and the resource needs of such programs.

“(f) INFORMATION GATHERING.—In carrying out the studies under this section, the provisions and requirements of section 114 of the Clean Air Act [42 U.S.C. 7414] shall be available for purposes of obtaining information to carry out such studies.

“(g) CONSULTATION AND COORDINATION.—In preparing the studies under this section the Administrator shall consult and coordinate with the Secretary of Energy, the Administrators of the National Aeronautics and Space Administration and the National Oceanic and Atmospheric Administration, and the heads of other relevant Federal agencies and departments. In the case of the studies under subsections (a), (b), and (e), such consultation and coordination shall include the Secretary of Agriculture.”

§ 7671c. Phase-out of production and consumption of class I substances

(a) Production phase-out

Effective on January 1 of each year specified in Table 2, it shall be unlawful for any person to produce any class I substance in an annual quantity greater than the relevant percentage specified in Table 2. The percentages in Table 2 refer to a maximum allowable production as a percentage of the quantity of the substance produced by the person concerned in the baseline year.

TABLE 2

Date	Carbon tetrachloride	Methyl chloroform	Other class I substances
1991 ...	100%	100%	85%
1992 ...	90%	100%	80%
1993 ...	80%	90%	75%
1994 ...	70%	85%	65%
1995 ...	15%	70%	50%
1996 ...	15%	50%	40%
1997 ...	15%	50%	15%
1998 ...	15%	50%	15%
1999 ...	15%	50%	15%
2000	20%
2001	20%

(b) Termination of production of class I substances

Effective January 1, 2000 (January 1, 2002 in the case of methyl chloroform), it shall be unlawful for any person to produce any amount of a class I substance.

(c) Regulations regarding production and consumption of class I substances

The Administrator shall promulgate regulations within 10 months after November 15, 1990, phasing out the production of class I substances in accordance with this section and other applicable provisions of this subchapter. The Administrator shall also promulgate regulations to in-

sure that the consumption of class I substances in the United States is phased out and terminated in accordance with the same schedule (subject to the same exceptions and other provisions) as is applicable to the phase-out and termination of production of class I substances under this subchapter.

(d) Exceptions for essential uses of methyl chloroform, medical devices, and aviation safety

(1) Essential uses of methyl chloroform

Notwithstanding the termination of production required by subsection (b), during the period beginning on January 1, 2002, and ending on January 1, 2005, the Administrator, after notice and opportunity for public comment, may, to the extent such action is consistent with the Montreal Protocol, authorize the production of limited quantities of methyl chloroform solely for use in essential applications (such as nondestructive testing for metal fatigue and corrosion of existing airplane engines and airplane parts susceptible to metal fatigue) for which no safe and effective substitute is available. Notwithstanding this paragraph, the authority to produce methyl chloroform for use in medical devices shall be provided in accordance with paragraph (2).

(2) Medical devices

Notwithstanding the termination of production required by subsection (b), the Administrator, after notice and opportunity for public comment, shall, to the extent such action is consistent with the Montreal Protocol, authorize the production of limited quantities of class I substances solely for use in medical devices if such authorization is determined by the Commissioner, in consultation with the Administrator, to be necessary for use in medical devices.

(3) Aviation safety

(A) Notwithstanding the termination of production required by subsection (b), the Administrator, after notice and opportunity for public comment, may, to the extent such action is consistent with the Montreal Protocol, authorize the production of limited quantities of halon-1211 (bromochlorodifluoromethane), halon-1301 (bromotrifluoromethane), and halon-2402 (dibromotetrafluoroethane) solely for purposes of aviation safety if the Administrator of the Federal Aviation Administration, in consultation with the Administrator, determines that no safe and effective substitute has been developed and that such authorization is necessary for aviation safety purposes.

(B) The Administrator of the Federal Aviation Administration shall, in consultation with the Administrator, examine whether safe and effective substitutes for methyl chloroform or alternative techniques will be available for nondestructive testing for metal fatigue and corrosion of existing airplane engines and airplane parts susceptible to metal fatigue and whether an exception for such uses of methyl chloroform under this paragraph will be necessary for purposes of airline safety after January 1, 2005 and provide a report to Congress in 1998.

(4) Cap on certain exceptions

Under no circumstances may the authority set forth in paragraphs (1), (2), and (3) of subsection (d) be applied to authorize any person to produce a class I substance in annual quantities greater than 10 percent of that produced by such person during the baseline year.

(5) Sanitation and food protection

To the extent consistent with the Montreal Protocol's quarantine and preshipment provisions, the Administrator shall exempt the production, importation, and consumption of methyl bromide to fumigate commodities entering or leaving the United States or any State (or political subdivision thereof) for purposes of compliance with Animal and Plant Health Inspection Service requirements or with any international, Federal, State, or local sanitation or food protection standard.

(6) Critical uses

To the extent consistent with the Montreal Protocol, the Administrator, after notice and the opportunity for public comment, and after consultation with other departments or instrumentalities of the Federal Government having regulatory authority related to methyl bromide, including the Secretary of Agriculture, may exempt the production, importation, and consumption of methyl bromide for critical uses.

(e) Developing countries**(1) Exception**

Notwithstanding the phase-out and termination of production required under subsections (a) and (b), the Administrator, after notice and opportunity for public comment, may, consistent with the Montreal Protocol, authorize the production of limited quantities of a class I substance in excess of the amounts otherwise allowable under subsection (a) or (b), or both, solely for export to, and use in, developing countries that are Parties to the Montreal Protocol and are operating under article 5 of such Protocol. Any production authorized under this paragraph shall be solely for purposes of satisfying the basic domestic needs of such countries.

(2) Cap on exception

(A) Under no circumstances may the authority set forth in paragraph (1) be applied to authorize any person to produce a class I substance in any year for which a production percentage is specified in Table 2 of subsection (a) in an annual quantity greater than the specified percentage, plus an amount equal to 10 percent of the amount produced by such person in the baseline year.

(B) Under no circumstances may the authority set forth in paragraph (1) be applied to authorize any person to produce a class I substance in the applicable termination year referred to in subsection (b), or in any year thereafter, in an annual quantity greater than 15 percent of the baseline quantity of such substance produced by such person.

(C) An exception authorized under this subsection shall terminate no later than January 1, 2010 (2012 in the case of methyl chloroform).

(3) Methyl bromide

Notwithstanding the phaseout and termination of production of methyl bromide pursuant to subsection (h), the Administrator may, consistent with the Montreal Protocol, authorize the production of limited quantities of methyl bromide, solely for use in developing countries that are Parties to the Copenhagen Amendments to the Montreal Protocol.

(f) National security

The President may, to the extent such action is consistent with the Montreal Protocol, issue such orders regarding production and use of CFC-114 (chlorofluorocarbon-114), halon-1211, halon-1301, and halon-2402, at any specified site or facility or on any vessel as may be necessary to protect the national security interests of the United States if the President finds that adequate substitutes are not available and that the production and use of such substance are necessary to protect such national security interest. Such orders may include, where necessary to protect such interests, an exemption from any prohibition or requirement contained in this subchapter. The President shall notify the Congress within 30 days of the issuance of an order under this paragraph providing for any such exemption. Such notification shall include a statement of the reasons for the granting of the exemption. An exemption under this paragraph shall be for a specified period which may not exceed one year. Additional exemptions may be granted, each upon the President's issuance of a new order under this paragraph. Each such additional exemption shall be for a specified period which may not exceed one year. No exemption shall be granted under this paragraph due to lack of appropriation unless the President shall have specifically requested such appropriation as a part of the budgetary process and the Congress shall have failed to make available such requested appropriation.

(g) Fire suppression and explosion prevention

(1) Notwithstanding the production phase-out set forth in subsection (a), the Administrator, after notice and opportunity for public comment, may, to the extent such action is consistent with the Montreal Protocol, authorize the production of limited quantities of halon-1211, halon-1301, and halon-2402 in excess of the amount otherwise permitted pursuant to the schedule under subsection (a) solely for purposes of fire suppression or explosion prevention if the Administrator, in consultation with the Administrator of the United States Fire Administration, determines that no safe and effective substitute has been developed and that such authorization is necessary for fire suppression or explosion prevention purposes. The Administrator shall not authorize production under this paragraph for purposes of fire safety or explosion prevention training or testing of fire suppression or explosion prevention equipment. In no event shall the Administrator grant an exception under this paragraph that permits production after December 31, 1999.

(2) The Administrator shall periodically monitor and assess the status of efforts to obtain substitutes for the substances referred to in

paragraph (1) for purposes of fire suppression or explosion prevention and the probability of such substitutes being available by December 31, 1999. The Administrator, as part of such assessment, shall consider any relevant assessments under the Montreal Protocol and the actions of the Parties pursuant to Article 2B of the Montreal Protocol in identifying essential uses and in permitting a level of production or consumption that is necessary to satisfy such uses for which no adequate alternatives are available after December 31, 1999. The Administrator shall report to Congress the results of such assessment in 1994 and again in 1998.

(3) Notwithstanding the termination of production set forth in subsection (b), the Administrator, after notice and opportunity for public comment, may, to the extent consistent with the Montreal Protocol, authorize the production of limited quantities of halon-1211, halon-1301, and halon-2402 in the period after December 31, 1999, and before December 31, 2004, solely for purposes of fire suppression or explosion prevention in association with domestic production of crude oil and natural gas energy supplies on the North Slope of Alaska, if the Administrator, in consultation with the Administrator of the United States Fire Administration, determines that no safe and effective substitute has been developed and that such authorization is necessary for fire suppression and explosion prevention purposes. The Administrator shall not authorize production under the paragraph for purposes of fire safety or explosion prevention training or testing of fire suppression or explosion prevention equipment. In no event shall the Administrator authorize under this paragraph any person to produce any such halon in an amount greater than 3 percent of that produced by such person during the baseline year.

(h) Methyl bromide

Notwithstanding subsections (b) and (d), the Administrator shall not terminate production of methyl bromide prior to January 1, 2005. The Administrator shall promulgate rules for reductions in, and terminate the production, importation, and consumption of, methyl bromide under a schedule that is in accordance with, but not more stringent than, the phaseout schedule of the Montreal Protocol Treaty as in effect on October 21, 1998.

(July 14, 1955, ch. 360, title VI, § 604, as added Pub. L. 101-549, title VI, § 602(a), Nov. 15, 1990, 104 Stat. 2655; amended Pub. L. 105-277, div. A, § 101(a) [title VII, § 764], Oct. 21, 1998, 112 Stat. 2681, 2681-36.)

AMENDMENTS

1998—Subsec. (d)(5), (6). Pub. L. 105-277, § 101(a) [title VII, § 764(b)], added pars. (5) and (6).

Subsec. (e)(3). Pub. L. 105-277, § 101(a) [title VII, § 764(c)], added par. (3).

Subsec. (h). Pub. L. 105-277, § 101(a) [title VII, § 764(a)], added subsec. (h).

§ 7671d. Phase-out of production and consumption of class II substances

(a) Restriction of use of class II substances

Effective January 1, 2015, it shall be unlawful for any person to introduce into interstate com-

merce or use any class II substance unless such substance—

(1) has been used, recovered, and recycled;

(2) is used and entirely consumed (except for trace quantities) in the production of other chemicals;

(3) is used as a refrigerant in appliances manufactured prior to January 1, 2020; or

(4) is listed as acceptable for use as a fire suppression agent for nonresidential applications in accordance with section 7671k(c) of this title.

As used in this subsection, the term “refrigerant” means any class II substance used for heat transfer in a refrigerating system.

(b) Production phase-out

(1) Effective January 1, 2015, it shall be unlawful for any person to produce any class II substance in an annual quantity greater than the quantity of such substance produced by such person during the baseline year.

(2) Effective January 1, 2030, it shall be unlawful for any person to produce any class II substance.

(c) Regulations regarding production and consumption of class II substances

By December 31, 1999, the Administrator shall promulgate regulations phasing out the production, and restricting the use, of class II substances in accordance with this section, subject to any acceleration of the phase-out of production under section 7671e of this title. The Administrator shall also promulgate regulations to insure that the consumption of class II substances in the United States is phased out and terminated in accordance with the same schedule (subject to the same exceptions and other provisions) as is applicable to the phase-out and termination of production of class II substances under this subchapter.

(d) Exceptions

(1) Medical devices

(A) In general

Notwithstanding the termination of production required under subsection (b)(2) and the restriction on use referred to in subsection (a), the Administrator, after notice and opportunity for public comment, shall, to the extent such action is consistent with the Montreal Protocol, authorize the production and use of limited quantities of class II substances solely for purposes of use in medical devices if such authorization is determined by the Commissioner, in consultation with the Administrator, to be necessary for use in medical devices.

(B) Cap on exception

Under no circumstances may the authority set forth in subparagraph (A) be applied to authorize any person to produce a class II substance in annual quantities greater than 10 percent of that produced by such person during the baseline year.

(2) Developing countries

(A) In general

Notwithstanding the provisions of subsection (a) or (b), the Administrator, after